

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A coded signal reproduction apparatus for reproducing coded data including a plurality of packets, wherein a packet start code indicating a packet boundary between a subsequent packet is placed at a head portion of each packet, said coded signal reproduction apparatus comprising:

a matching status information outputter operable to detect whether a sequence of input code is a part of the packet start code, and to output the detection result as matching status information ~~a matching status of a code which is input for every predetermined bit with a prefix code of a packet start code, and to output matching status information at a head part of the packet start code;~~ and

a data formatter operable to output predetermined data in accordance with the matching status information when the sequence of input code is judged not to be a part of the packet start code, and not to output when the sequence of input code is judged to be a part of the packet start code.[[;]]

~~wherein, when a next packet start code is recognized, the predetermined data is output so as to be positioned at a head part of the data other than a header which follows the next packet start code~~

wherein said matching status information outputter includes a head code detection unit operable to receive the sequence of input code in units of a predetermined bit length, and to determine whether a current input code of the sequence of input code matches a current code of the packet start code, and

wherein said data formatter is operable to output the predetermined data at a timing when said head code detection unit determines that the current input code of the sequence of input code does not match the current code of the packet start code.

2. (Currently Amended) A coded signal reproduction apparatus as described in Claim 1, wherein said matching status information outputter includes:

~~a head code detection unit operable to detect the matching status of the head part of the packet start code at every predetermined bit from the input code sequence, and to output matching information at the present point of time; and~~

a matching status historical information hold unit operable to receive ~~the matching information at the present point of time~~ matching information indicating whether the current input code of the sequence of input code matches the current code of the packet start code from said head code detection unit, and to hold historical information ~~of the matching status of the head code~~ indicating how many consecutive times the current input code of the sequence of input code matches the current code of the packet start code,

wherein said head code detection unit identifies the current input code of the packet start code based on the historical information stored on said matching status historical information hold unit.

3. (Currently Amended) A coded signal reproduction apparatus as described in Claim [[1]] 2, wherein said matching status information outputter includes:

~~a head code detection unit operable to detect the matching status of the head part of the packet start code at every predetermined bit from the input code sequence, and to output matching information at the present point of time; and~~

~~a matching status historical information hold unit operable to receive the matching information at the present point of time, and to hold historical information of the matching status of the head code; and~~

~~a start code discriminator operable to discriminate the packet start code by using the historical information and a packet start code identifier existing in the latter half last part of the packet start code when the historical information indicates that the sequence of input code matches the packet start code other than the packet start code identifier.~~

4. (Currently Amended) A coded signal reproduction apparatus as described in Claim [[1]] 2, wherein said matching status information outputter includes:

~~a head code detection unit operable to detect the matching status of the head part of the packet start code at every predetermined bit from the input code sequence, and to output matching information at the present point of time; and~~

~~a matching status historical information hold unit operable to receive the matching information at the present point of time, and to hold historical information of the matching status of the head code; and~~

~~a start code discrimination unit discriminator operable to discriminate a hierarchy start code of video data in accordance with the historical information and a video hierarchy identifier~~

of coded video data which exists in a position corresponding to the ~~latter half~~ last part of the packet start code when the historical information indicates that the sequence of input code matches the packet start code other than the packet start code identifier.

5. (Currently Amended) A coded signal reproduction apparatus as described in Claim 1, further comprising:

a header analyzer operable to analyze the header of the packet to output reproduction information when the code which is input is coded video data;

wherein said data formatter is operable to insert the reproduction information together with information indicating effectiveness of the reproduction information, in a predetermined position in the coded video data.

6. (Currently Amended) A coded signal reproduction apparatus as described in Claim [[4]] 5, wherein said header analyzer includes a header analysis unit operable to analyze the header of the packet and to output the reproduction information, and a reproduction information hold unit operable to hold the reproduction information.

7. (Currently Amended) A coded signal reproduction apparatus as described in Claim 6, wherein said header analyzer is operable to activate when the packet start code is identified.

8. (Currently Amended) A coded signal reproduction apparatus comprising:

an end code sequence detector operable to detect, from code sequences of coded data, a code sequence indicating the end of the coded data; and

a formatter operable to add a predetermined number of pseudo data to the rear of the code sequence indicating the end of the coded data so that the data bus width of pipeline transfer including the end of the coded data becomes equal to the bus width of pipeline transfer including other data, when a code sequence indicating the end of the code data is detected by said end code sequence detector,

wherein the predetermined number is always less than the data bus width of pipeline transfer, and

wherein the coded data is transferred successively in a pipeline manner.

9. (Previously Presented) A coded signal reproduction apparatus as described in Claim 8, further comprising:

a specific code sequence inserter operable to insert a specific code sequence in the last packet in a packet sequence before decoding;

wherein said formatter is operable to add a predetermined number of pseudo data to the rear of the specific code sequence.

10. (Currently Amended) A coded signal reproduction apparatus as described in Claim 1, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

11. (Cancelled)

12. (Currently Amended) A coded signal reproduction apparatus as described in Claim 2, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

13. (Currently Amended) A coded signal reproduction apparatus as described in Claim 3, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

14. (Currently Amended) A coded signal reproduction apparatus as described in Claim 4, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

15. (Currently Amended) A coded signal reproduction apparatus as described in Claim 5, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

16. (Currently Amended) A coded signal reproduction apparatus as described in Claim 6, wherein the ~~input code sequence~~ of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

17. (Currently Amended) A coded signal reproduction apparatus as described in Claim 7, wherein the ~~input code~~ sequence of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

18. (Currently Amended) A coded signal reproduction apparatus as described in Claim 8, wherein the ~~input code~~ sequence of input code is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.